



A.D. 1867, 28th NOVEMBER. N° 3378.

S P E C I F I C A T I O N

OF

JAMES MURDOCH NAPIER.

PRESERVING UNGUENTS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 10d.

1868.



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Preserving Unguents.

LETTERS PATENT to James Murdoch Napier, of the York Road, Lambeth, in the County of Surrey, for the Invention of "**IMPROVEMENTS IN VESSELS AND APPARATUS FOR THE PRESERVING AND MORE CONVENIENT USE OF UNGUENTS.**"

Sealed the 15th May 1868, and dated the 28th November 1867.

PROVISIONAL SPECIFICATION left by the said James Murdoch Napier at the Office of the Commissioners of Patents, with his Petition, on the 28th November 1867.

I, JAMES MURDOCH NAPIER, of the York Road, Lambeth, in the County of
5 Surrey, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN VESSELS AND APPARATUS FOR THE PRESERVING AND MORE CONVENIENT USE OF UNGUENTS,**" to be as follows :—

This Invention has for its object the preservation of unguents or ointments from the effects of exposure to the atmosphere and from dust and dirt during
10 their use, and the employment of apparatus by the aid of which such substances may be more conveniently used than at present. It is well known that unguents, such as the ointments termed pomades, pomatums, and salves, as well as other unguents or ointments, are at present placed for use in pots,

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bottles, and boxes, which it is necessary to uncover by removing a lid or stopper large enough to permit the insertion of the finger or a suitable instrument in order to get out the required quantity. This inconvenient process and the consequent exposure of the unguents are avoided by my Invention, which consists of providing vessels for containing unguents with an aperture 5 or orifice of limited size through which the unguents contained in such vessels may be forced and presented in a manner convenient for removal by the finger or otherwise. The force necessary to eject the unguent from the vessel through the orifice may be applied upon a piston or plunger suited to the vessel. The direct pressure of the hand upon the piston or plunger may be 10 used to eject the unguent, and the necessary pressure may be exerted through the means of a lever, screw, or other mechanical arrangement. A spring may also be used when preferred, which having been compressed or wound up may expend its force against the piston or plunger so as to eject or assist in ejecting the unguent through the orifice, such orifice or the channel leading 15 thereto being in this case opened and closed at pleasure by means of a suitable valve. The vessels for containing unguents may be formed and arranged so as to separate from that part of the apparatus which is used for forcing the unguent out through the aperture or orifice in the vessel so that a number of such vessels containing various unguents may successively 20 be used in conjunction with a forcing apparatus, the vessel being changed when empty for a full vessel of the same description; the apparatus may also have its own peculiar vessel, which will not be changed but refilled when emptied; such a vessel may be made more costly and ornamental than those which are set aside or changed after they are emptied. The piston or plunger 25 in the case of separate vessels being employed may form the means of closing the one end of such vessels, and each vessel will thus be supplied with its own piston or plunger, which will be forced into it by the means to which I have already referred when it is desired to eject the unguent. I prefer to make the vessels cylindrical in form and to place the orifice for the unguent to pass 30 out of at that end of the vessel which is opposite to the piston and in the centre; and I so form the orifice and the outer surface which is around it that the unguent may be easily wiped off for use by the finger. It will thus be clearly understood that by the use of my Invention unguents are preserved in closed vessels during use, and are not exposed except at the comparatively 35 small opening through which they are ejected by the pressure against the piston or plunger; this opening and the outer surface surrounding it may be covered when desired. I prefer to make the outer surface which surrounds the orifice through which the unguent is forced smooth, so that it may be

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easily wiped, and of such a breadth or extent as that the finger may be conveniently pressed against it in the act of wiping off the unguent, and also of a hollow or saucer form, which suiting for wiping with the finger will also serve to contain the unguent ejected from the vessel should it be free or soft. The
5 wiping surface surrounding the orifice may form part of the vessel containing the unguent, or it may be separate from it, the vessel at the orifice being suited to fit the part which is formed for a wiping surface. This arrangement will render it unnecessary for each vessel to be formed with a suitable wiping surface at the orifice they may however be so formed if desired.

10 SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said James Murdoch Napier in the Great Seal Patent Office on the 28th May 1868.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES MURDOCH NAPIER, of the York Road, Lambeth, in the County of Surrey,
15 send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-eighth day of November, in the year of our Lord One thousand eight hundred and sixty-seven, in the thirty-first year of Her reign, did, for Herself, Her heirs and successors, give and grant unto
20 me, the said James Murdoch Napier, Her special licence that I, the said James Murdoch Napier, my executors, administrators, and assigns, or such others as I, the said James Murdoch Napier, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should
25 and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "IMPROVEMENTS IN VESSELS AND APPARATUS FOR THE PRESERVING AND MORE CONVENIENT USE OF UNGUENTS," upon the condition (amongst others) that I, the said James Murdoch Napier, my executors
30 or administrators, by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters
35 Patent.

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NOW KNOW YE, that I, the said James Murdoch Napier, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:—

This Invention has for its object the preservation of unguents or ointments 5 from the effects of exposure to the atmosphere, and from dust and dirt during their use, and the employment of apparatus by the aid of which such substances may be more conveniently used than at present. It is well known that unguents, such as the ointments termed pomades, pomatums, and salves, as well as other unguents or ointments, are at present placed for use in pots, 10 bottles, and boxes, which it is necessary to uncover by removing a lid or stopper large enough to permit the insertion of the finger or a suitable instrument in order to get out the required quantity; this inconvenient process and the consequent exposure of the unguents are avoided by my Invention, which consists of providing vessels for containing unguents with an aperture or 15 orifice of limited size through which the unguents contained in such vessels may be forced and presented in a manner convenient for removal by the finger or otherwise. The force necessary to eject the unguent from the vessel through the orifice is applied upon a piston or plunger suited to the vessel. The direct pressure of the hand upon the piston or plunger may be 20 used to eject the unguent, and the necessary pressure may be exerted through the means of a lever, screw, or other mechanical arrangement. The vessels for containing unguents may be formed and arranged so as to separate from that part of the apparatus which is used for forcing the unguent out through the aperture or orifice in the vessel, so that a number of such vessels 25 containing various unguents may successively be used in conjunction with a forcing apparatus, the vessel being changed when empty for a full vessel of the same description. The apparatus may also have its own peculiar vessel, which will not be changed but refilled when emptied; such a vessel may be made more costly and ornamental than those which are set aside or changed 30 after they are emptied. The piston or plunger in the case of separate vessels being employed may form the means of closing the one end of such vessels, and each vessel will thus be supplied with its own piston or plunger, which will be forced into it by the means to which I have already referred when it is desired to eject the unguent. I prefer to make the vessels cylindrical in form, 35 and to place the orifice for the unguent to pass out of at that end of the vessel which is opposite to the piston and in the centre, and I so form the orifice and the outer surface which is around it that the unguent may be easily wiped off for use by the finger, or that it may be easily removed by other

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means. It will thus be clearly understood that by the use of my Invention
unguents are preserved in closed vessels during use, and are not exposed
except at the comparatively small opening through which they are ejected by
the pressure against the piston or plunger; this opening and the outer surface
5 surrounding it may be covered when desired. I prefer to make the outer
surface which surrounds the orifice through which the unguent is forced
smooth, so that it may be easily wiped, and of such a breadth or extent as that
the finger may be conveniently pressed against it in the act of wiping off the
unguent, and it may be of a hollow or saucer form, which suiting for wiping
10 with the finger will also serve to contain the unguent ejected from the vessel
should it be free or soft. The wiping surface surrounding the orifice may
form part of the vessel containing the unguent, or it may be separate from it,
the vessel at the orifice being suited to fit into or against the part which is
formed for a wiping surface. This arrangement will render it unnecessary for
15 each vessel to be formed with a suitable wiping surface at the orifice, they
may however be so formed if desired.

And in order that my said Invention may be most fully understood and
readily carried into effect, I will proceed to describe the Drawings hereunto
annexed.

20

DESCRIPTION OF THE DRAWINGS.

The accompanying Drawing will serve to illustrate some of the arrangements
of my Invention to which I have referred.

Figure 1 is a section of the apparatus. A is the vessel to contain the
unguent; B, a cover which may be removed at pleasure; C, a ring hinged or
25 jointed to the lower stand D at *a*, and held down by the screw fastening at *b*;
this ring it will be seen keeps in its place the containing vessel A. E is a
piston or plunger which fits into the vessel A. The piston E is forced into
the vessel A by means of the screw F, which has a pressure piece *c* fitted to
it. At its lower end the screw is furnished with a head piece having projec-
30 tions, which slide in the grooves *d, d*, in the tube *e*; upon this tube the bevil
wheel G is fixed, which is turned through the pinion H by the button I.
When the tube *e* is turned round it thus turns the screw F which fits into
the base at *f*, and so the piston may be forced into the vessel A, the contents
of the vessel being at the same time ejected through the orifice *g* into the cup
35 or basin *h*.

In Figure 2 the general arrangements are the same as those explained
in reference to Figure 1, except that the holding down ring C is fixed to the
lower stand D, and is cut away in segments, as shown in plan, Figure 3, the

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NAPIER'S SPECIFICATION.

FIG. 1.

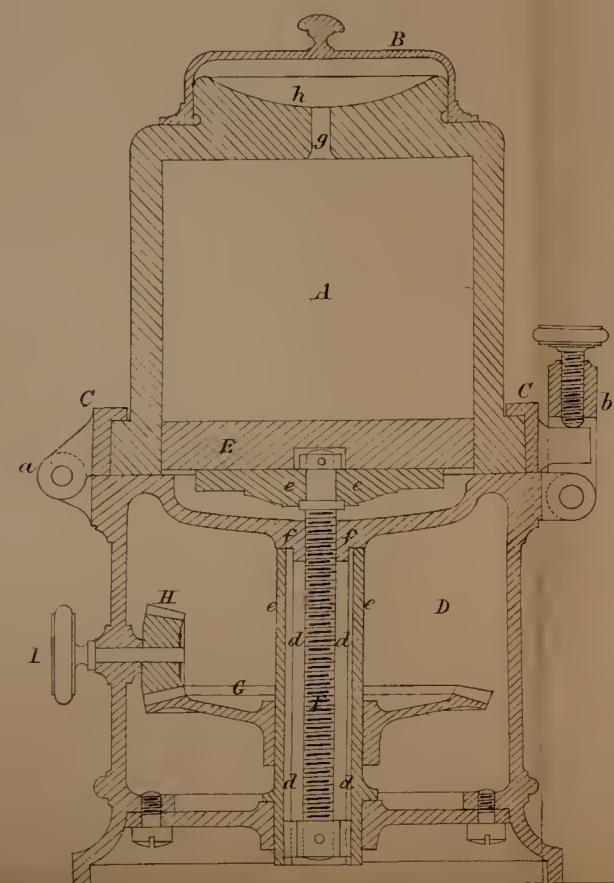


FIG. 2.

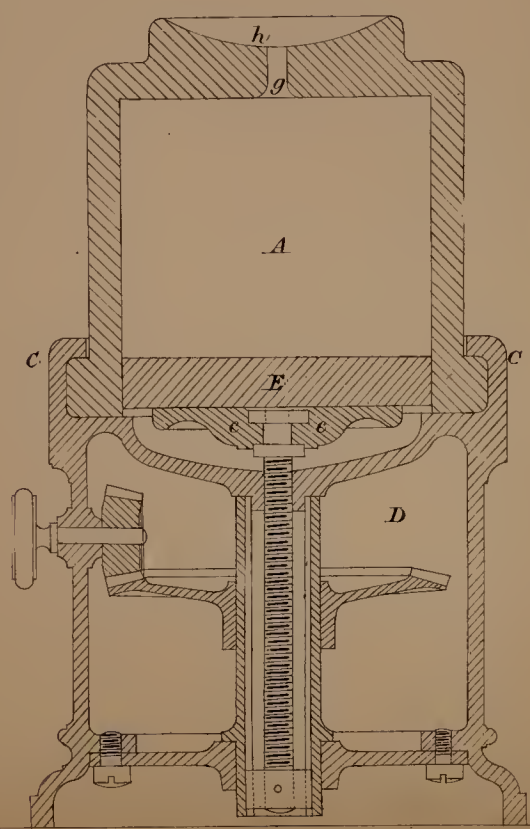


FIG. 4.

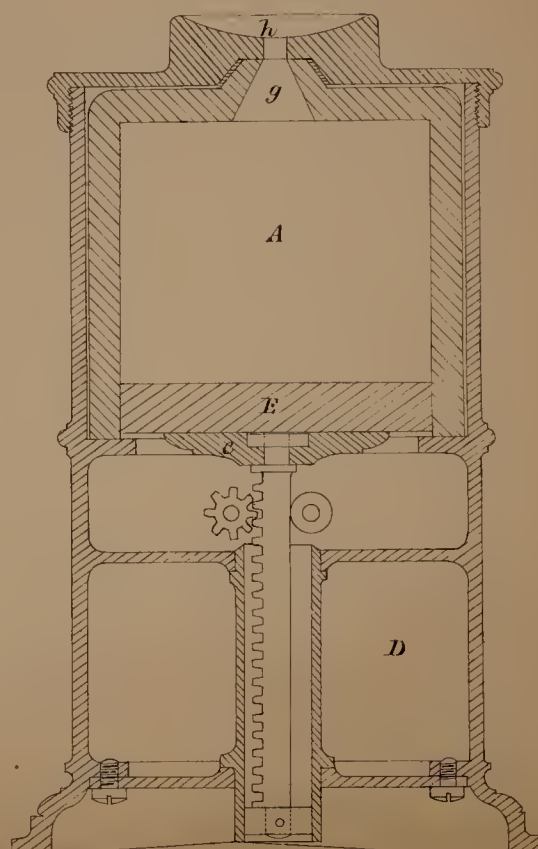


FIG. 5.

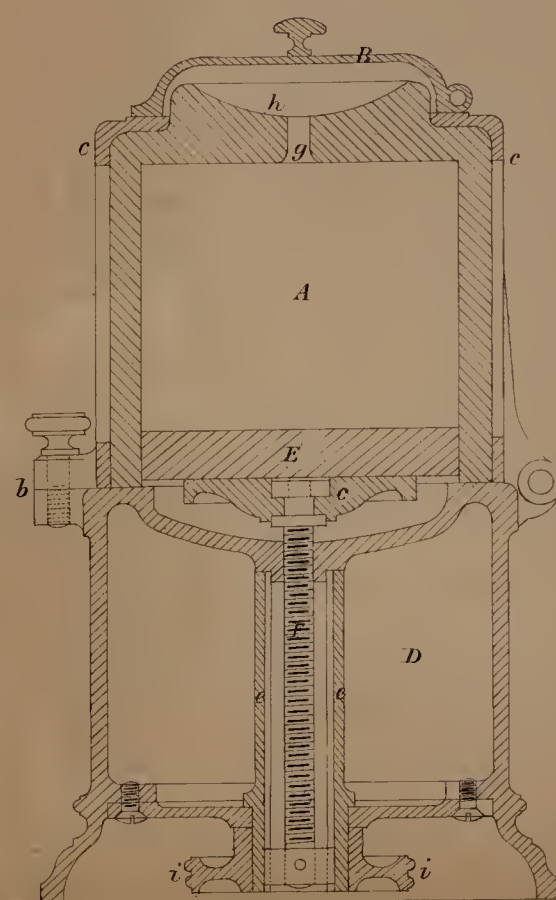
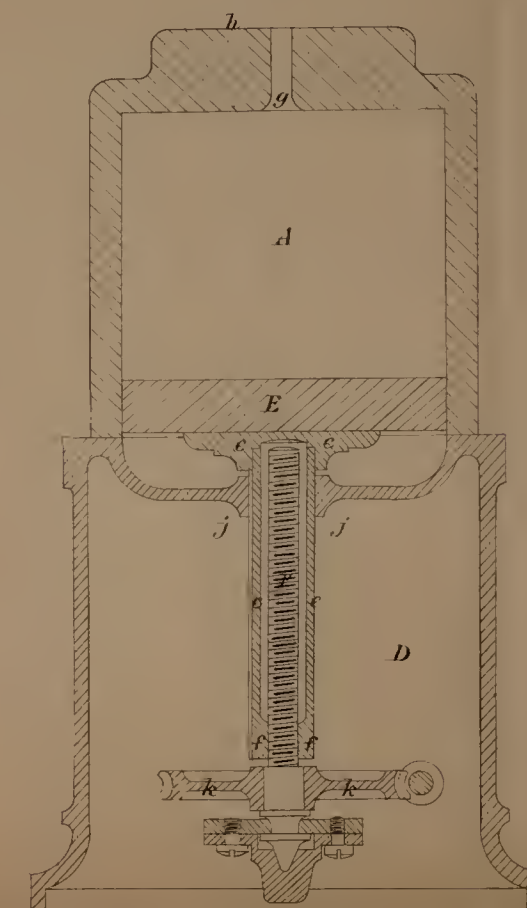


FIG. 6.



Section of Tube e. Fig. 1.



FIG. 10.

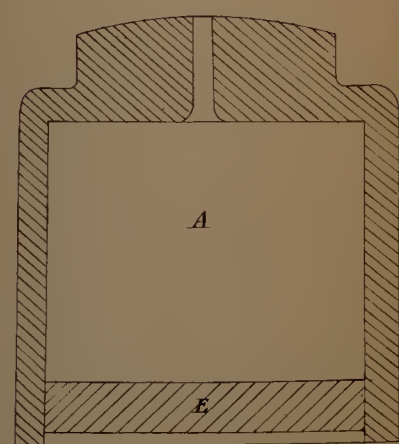


FIG. 3.

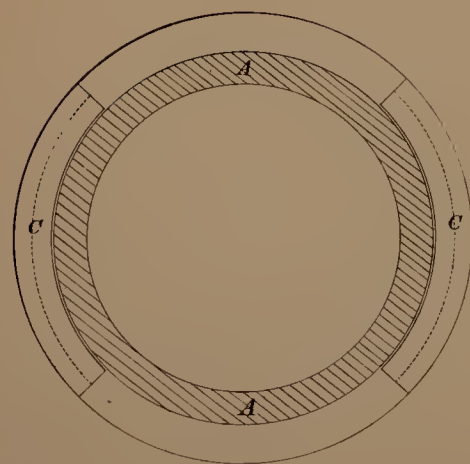


FIG. 9.

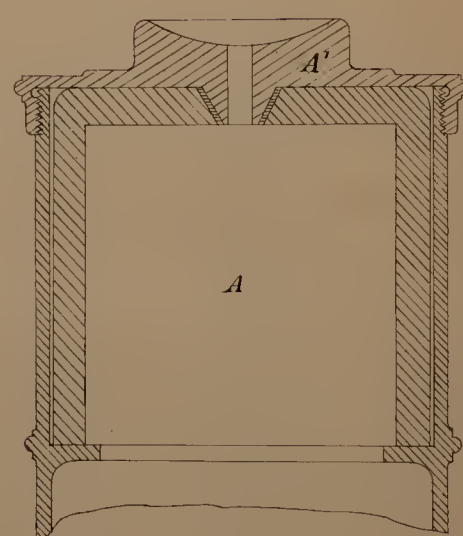
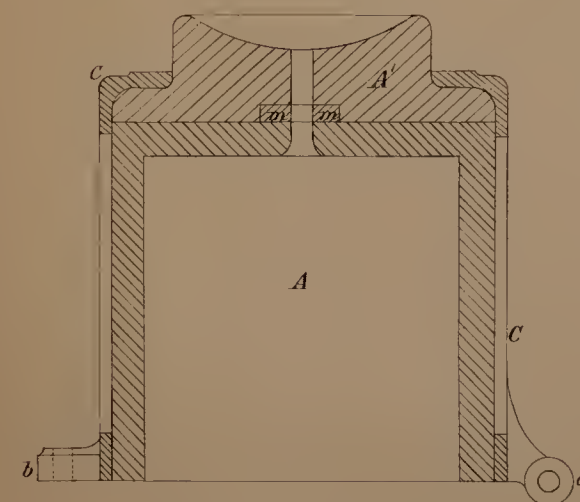


FIG. 8.



Broken off

FIG. 7.

